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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE PATENT

IN RE APPLICATION: Usama Fayyad et al.

Serial No. 09/700,606 Group Art Unit: 2171

Filed: January 31, 2001

Title: SCALABLE SYSTEM FOR CLUSTERING OF LARGE DATABASES HAVING
MIXED ATTRIBUTES

Docket No. 14-694 - 4254

Watts, Hoffmann, Fisher & Heinke, Co., LPA
1100 Superior Avenue, Ste. 1750
Cleveland, Ohio 44114VIA FACSIMILE (703) 308-5083Attention: Lamond Fletcher
Assistant Commissioner for Patents
Documents Review Office
Washington, D.C. 20231REQUEST FOR CORRECTED FILING RECEIPT

Dear Mr. Fletcher:

Attached are copies of previous attempts to correct the filing receipt for the above-identified patent application. As evidenced by the enclosed copy of page one of the specification, noting the first two paragraphs, and the enclosed copy of the Declaration and Power of Attorney, the correct domestic priority data as claimed by applicant should read as follows:

THIS APPLICATION IS A 371 OF PCT/US99/06717 03/29/1999

WHICH IS A CIP OF 09/083,906 05/22/1998

WHICH CLAIMS BENEFIT OF 60/086,410 05/22/1998

A copy of the original filing receipt is enclosed which shows the necessary corrections. A corrected filing is **urgently** and respectfully requested since this application has been passed to issue and the issue fee must be paid before April 28, 2003. We would like to have the filing receipt corrected before this patent issues to insure that the patent issues with all correct information. I was informed that the publication department is not currently in possession of this file and I was instructed to

BEST AVAILABLE COPY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE PATENT

IN RE APPLICATION: Usama Fayyad et al.

Serial No. 09/700,606 Group Art Unit: 2171

Filed: January 31, 2001

Title: SCALABLE SYSTEM FOR CLUSTERING OF LARGE DATABASES HAVING
MIXED ATTRIBUTES

Docket No. 14-694 - 4254

Watts, Hoffmann, Fisher & Heinke, Co., LPA
1100 Superior Avenue, Ste. 1750
Cleveland, Ohio 44114VIA FACSIMILE (703) 305-3230Attention: Ms. Cathy Short
Assistant Commissioner for Patents, Box PCT
Washington, D.C. 20231REQUEST FOR CORRECTED FILING RECEIPT

Dear Ms. Short:

As evidenced by the enclosed copy of page one of the specification, noting the first two paragraphs, and the enclosed copy of the Declaration and Power of Attorney, the correct domestic priority data as claimed by applicant should read as follows:

THIS APPLICATION IS A 371 OF PCT/US99/06717 03/29/1999

WHICH IS A CIP OF 09/083,906 05/22/1998

WHICH CLAIMS BENEFIT OF 60/086,410 05/22/1998

A copy of the original filing receipt is enclosed which shows the necessary corrections. A corrected filing is **urgently** and respectfully requested since this application has been passed to issue.

Respectfully submitted,

Date: 3/21/03Telephone: 216-241-6700
Facsimile: 216-241-8151

Stephen S. Schultz
Reg. No. 29,108

Brian J. Gargiulo
Reg. No. 37,697

George L. Pinchare
Reg. No. 37,697

W. Thomas Cowan

WATTS, HOFFMANN, FISHER & HEINKE CO., L.P.A.
ATTORNEYS AT LAW

U.S. POSTAL ADDRESS:

P.O. Box 99839
Cleveland, Ohio 44199-0839

BUILDING ADDRESS:

1100 Superior Avenue, Suite 1750
Cleveland, Ohio 44114-2518

TELEPHONE (216) 241-6700
FACSIMILE (216) 241-8151

FACSIMILE TRANSMITTAL

To:	CARLY SHORT
Organization:	U.S.P.T.O. - PCT
Facsimile No.:	703-305-3230
From:	STEPHEN J. SCHULZ
Date:	3/31/03
Our File No.:	14-694
No. of pages: (including this cover pg.)	8

MESSAGE:

(if checked) A confirmation copy of this transmission will follow via U.S. mail.

CONFIDENTIALITY NOTE

The information accompanying this facsimile transmission may be confidential, privileged, and exempt from disclosure under applicable law. This information is intended only for the individual or entity identified on this transmittal. If you are not the intended recipient, be aware that any disclosure, dissemination, copying or distribution, or use of this information is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone (collect), so that we can arrange for the retrieval of the transmitted facsimile page(s). Thank you.

APR. 9.2003 2:34PM

WATTS, HOFFMAN&FISHER

NO. 195

P.4

P. 1

* * * TRANSMISSION RESULT REPORT (MAR. 21. 2003 2:11PM) * * *

TTI WATTS, HOFFMAN&FISHER

DATE	TIME	ADDRESS	MODE	TIME	PAGE	RESULT	PERS. NAME	FILE
MAR. 21.	2:09PM	703 385 3230 TES		1'40"	P. 8	OK		547

* : BATCH
M : MEMORY
S : STANDARD
PC : PC

C : CONFIDENTIAL
L : SEND LATER
D : DETAIL
% : PC DIRECT

\$: TRANSFER
@ : FORWARDING
: FINE

P : POLLING
P : ECM
> : REDUCTION

WATTS, HOFFMANN, FISHER & HEINKE CO., L.P.A.
ATTORNEYS AT LAW

U.S. POSTAL ADDRESS:
P.O. Box 99839
Cleveland, Ohio 44199-0839

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1100 Superior Avenue, Suite 1750
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TELEPHONE (216) 241-6700
FACSIMILE (216) 241-8151
E-MAIL: IPLAW@WATTSHOFF.COM

FACSIMILE TRANSMITTAL

To:	U.S. Patent and Trademark Office
Organization:	Initial Patent Examination Filing Receipt Corrections
Facsimile No.:	703-746-9195
From:	Stephen J. Schultz, Esq.
Date:	March 14, 2003
Our File No.:	14-694 (U.S. Serial No. 09/700,606)
No. of pages: (including this cover pg.)	27

MESSAGE:

URGENT!

Dear Sir/Madam: The above-identified patent application has been allowed. We have previously submitted six requests for a corrected filing receipt to correct priority information. All requests have gone unanswered and are attached for your reference. Since this case is getting ready for issuance, please forward a corrected filing receipt corresponding to our previous requests as quickly as possible. Obviously, we want to have the patent issue with correct priority information. Thank you for your attention to this matter.

(if checked) A confirmation copy of this transmission will follow via U.S. mail.

CONFIDENTIALITY NOTE

The information accompanying this facsimile transmission may be confidential, privileged, and exempt from disclosure under applicable law. This information is intended only for the individual or entity identified on this transmittal. If you are not the intended recipient, be aware that any disclosure, dissemination, copying or distribution, or use of this information is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone (collect), so that we can arrange for the retrieval of the transmitted facsimile page(s). Thank you.

WATTS, HOFFMANN, FISHER & HEINKE CO., L.P.A.
ATTORNEYS AT LAW

U.S. POSTAL ADDRESS:

P.O. Box 99839
Cleveland, Ohio 44199-0839

BUILDING ADDRESS:

1100 Superior Avenue, Suite 1750
Cleveland, Ohio 44114-2518

TELEPHONE (216) 241-6700
FACSIMILE (216) 241-8151

FACSIMILE TRANSMITTAL

To:	U.S. PTO
Organization:	Filing Receipt Corrections
Facsimile No.:	703-746-9193
From:	Steve Schutz
Date:	11/5/03
Our File No.:	14-694-
No. of pages: (including this cover pg.)	9

MESSAGE:

REMINDER 01/02/03

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CONFIDENTIALITY NOTE

The information accompanying this facsimile transmission may be confidential, privileged, and exempt from disclosure under applicable law. This information is intended only for the individual or entity identified on this transmittal. If you are not the intended recipient, be aware that any disclosure, dissemination, copying or distribution, or use of this information is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone (collect), so that we can arrange for the retrieval of the transmitted facsimile page(s). Thank you.

**PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION: Usama Fayyad et al.

Serial No. 09/700,606 Group Art Unit: 2171

Filed: January 31, 2001

Title: SCALABLE SYSTEM FOR CLUSTERING OF LARGE DATABASES
HAVING MIXED ATTRIBUTES

Docket No. 14-694 - 4254

WATTS, HOFFMANN, FISHER
& HEINKE, CO., L.P.A.
1100 Superior Avenue, Ste. 1750
Cleveland, Ohio 44114

VIA FACSIMILE (703) 746-9195

Assistant Commissioner for Patents
Office of Initial Patent Examination's
Filing Receipt Corrections
Washington, D.C. 20231

THIRD REQUEST FOR CORRECTED FILING RECEIPT

Dear Sir/Madam:

Applicant's attorney filed two requests for a corrected filing receipt on February 7, and August 26 2002. To date, a corrected filing receipt has not yet been received.

As evidenced by the enclosed copy of page one of the specification, specifically, the first two paragraphs, and the enclosed copy of the Declaration and Power of Attorney, the correct domestic priority data as claimed by applicant should read as follows:

THIS APPLICATION IS A 371 OF PCT/US99/06717 03/29/1999

WHICH IS A CIP OF 09/083,906 05/22/1998

WHICH CLAIMS BENEFIT OF 60/086,410 05/22/1998

A copy of the original filing receipt is enclosed which shows the necessary corrections. A corrected filing receipt is again respectfully requested.

Respectfully submitted,

Date: Nov 5, 2002

Telephone: 216-241-6700
Facsimile: 216-241-8151

Stephen Schultz
Stephen S. Schultz
Reg. No. 29,108

APR. 9.2003 2:35PM

WATTS, HOFFMAN&FISHER

NO. 195 P.9

P. 1

* * * TRANSSION RESULT REPORT (JAN. 6.2003 2:07PM) * * *

TTI WATTS, HOFFMAN&FISHER

DATE	TIME	ADDRESS	MODE	TIME	PAGE	RESULT	PERS. NAME	FILE
JAN. 6.	2:06PM	USPTO TES		1'04"	P. 3	OK		053

: BATCH
M : MEMORY
S : STANDARD
* : PC

C : CONFIDENTIAL
D : SEND LATER
D : DETAIL
X : PC DIRECT

\$: TRANSFER
T@ : FORWARDING
T@ : FINE

P : POLLING
E : ECM
> : REDUCTION

PATENT APPLICATION

Attorney Docket No.: 14694
Client: 4257

Applicant(s): *Terence J. Sajjad et al.*
Title: *Self-Assembly System, Method and Busines*
Serial No.: *09/906,608* Filed: *4/3/01*, Patent No.: _____
Mailing Date: *8/19/02* Initials: *KB*

Receipt is hereby acknowledged of the following:

Transmittal (____ pages)
 Provisional Application for Patent Cover Sheet
 Request for Filing a Patent Application under 37 CFR 1.53 (b) (____ pages)
 Request for Filing a Patent Application under 37 CFR 1.53 (d) (____ pages)
 Patent Application (____ total pages)
 Provisional, New Nonprovisional
 Continuation, Divisional, C/P
 PCT, _____
____ cover page
____ pages of specification
____ pages of ____ number of claims
____ pages of abstract
 Drawings (____ sheets)
 Declaration(s) with Power of Attorney (____ pages)
 Check(s) in Amount of \$ _____

Assignment(s) (____ pages)
 Assignment Cover Sheet(s) (____ pages)
 Small Entity Statement (____ pages)
 Number of Priority Document(s)
 Response to Notice to File Missing Parts (____ pages)
 Copy of Notice to File Missing Parts Form PTO-1533
 Information Disclosure Statement (____ pages)
 PTO Form 1449 (____ pages)
 Number of Documents
 Petition for a ____ Month Extension of Time
 Preliminary Amendment (____ pages)
 Amendment (____ pages)
 Notice of Appeal (____ pages)
 Appeal Brief in Triplicate (____ pages each)
 Issue Fee Transmittal PTO-LASB & Copy
 Maintenance Fee Transmittal (____ pages)
 Request for Continued Examination

14694-4257
APR 26 2002
PATENT & TRADEMARK OFFICE
2nd Request for Continued Examination - app
Attachments

APR. 9.2003 2:36PM

WATTS, HOFFMAN&FISHER

NO. 195 P.10

TRANSMISSION RESULT REPORT

(NOV 05 '02 03:57PM)

WA, HOFFMAN&FISHER

(AUTO)

THE FOLLOWING FILE(S) ERASED

FILE	FILE TYPE	OPTION	TEL NO.	PAGE	RESULT
091	TRANSMISSION	"	8170374691954254	09	OK

ERRORS

- 1) HANG UP OR LINE FAIL 2) BUSY 3) NO ANSWER 4) NO FACSIMILE CONNECTION

**PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION: Usama Fayyad et al.

Serial No. 09/700,606

Filed: January 31, 2001

Title: SCALABLE SYSTEM FOR CLUSTERING OF LARGE DATABASES HAVING MIXED ATTRIBUTES

Docket No. 14-694 - 4254

WATTS, HOFFMANN, FISHER
& HEINKE, CO., L.P.A.
1100 Superior Avenue, Ste. 1750
Cleveland, Ohio 44114

Assistant Commissioner for Patents
Office of Initial Patent Examination's
Customer Service Center
Washington, D.C. 20231

SECOND REQUEST FOR CORRECTED FILING RECEIPT

Sir:

Applicant's attorney filed a request for a corrected filing receipt on February 7, 2002. To date, a corrected filing receipt has not yet been received.

As evidenced by the enclosed copy of page one of the specification, specifically, the first two paragraphs which have been highlighted for your convenience, and the enclosed copy of the Declaration and Power of Attorney, the correct domestic priority data as claimed by applicant should read as follows:

THIS APPLICATION IS A 371 OF PCT/US99/06717 03/29/1999

WHICH IS A CIP OF 09/083,906 05/22/1998

WHICH CLAIMS BENEFIT OF 60/086,410 05/22/1998

By Karen Baysal
on 8/19/03
Assitant Commissioner of Patents, Washington, D.C. 20231

A copy of the original filing receipt is enclosed which shows the necessary corrections.
A corrected filing receipt is respectfully requested.

Respectfully submitted,

Date: Aug 15, 2002.

Telephone: 216-241-6700
Facsimile: 216-241-8151

Stephen S. Schultz
Stephen S. Schultz
Reg. No. 29,108

PATENT APPLICATION

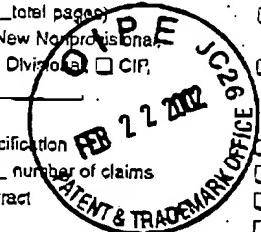
Attorney Docket No.: 14-194

Client: 4254

Applicant(s): *Donald et al.* Serial No.: 09/702,006 Filed: 1/31/01 Patent No.: _____

Mailing Date: 3/7/02 Initials: *KA*

Receipt is hereby acknowledged of the following:

- Transmittal (pages) Assignment(s) (pages)
 Provisional Application for Patent Cover Sheet Assignment Cover Sheet(s) (pages)
 Request for Filing a Patent Application Small Entity Statement (pages)
under 37 CFR 1.53 (b) (pages) Number of Priority Document(s)
 Request for Filing a Patent Application Response to Notice to File Missing Parts
under 37 CFR 1.53 (d) (pages) (pages)
 Patent Application (total pages) Copy of Notice to File Missing Parts
 Provisional, New Nonprovisional Form PTO-1533
 Continuation, Divisional, CIP,
 PCT, cover page 
 pages of specification PTO Form 1449 (pages)
 pages of number of claims Number of Documents
 pages of abstract Petition for a Month Extension of Time
 Drawings (sheets) Preliminary Amendment (pages)
 Declaration(s) with Power of Attorney Amendment (pages)
(pages) Notice of Appeal (pages)
 Check(s) in Amount of \$ Appeal Brief in Triplicate (pages, each)
 Request for Correction of filing error Issue Fee Transmittal PTO-85B & Copy
 with attachments Maintenance Fee Transmittal (pages)
 Request for Continued Examination

**PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION: Usama Fayyad et al.

Serial No. 09/700,606

Filed: January 31, 2001

Title: SCALABLE SYSTEM FOR CLUSTERING OF LARGE DATABASES HAVING MIXED ATTRIBUTES

Docket No. 14-694 - 4254

**WATTS, HOFFMANN, FISHER
& HEINKE, CO., L.P.A.
1100 Superior Avenue, Ste. 1750
Cleveland, Ohio 44114**

Assistant Commissioner for Patents
Office of Initial Patent Examination's
Customer Service Center
Washington, D.C. 20231

REQUEST FOR CORRECTED FILING RECEIPT

Sir:

As evidenced by the enclosed copy of page one of the specification, specifically, the first two paragraphs which have been highlighted for your convenience, and the enclosed copy of the Declaration and Power of Attorney, the correct domestic priority data as claimed by applicant should read as follows:

THIS APPLICATION IS A 371 OF PCT/US99/06717 03/29/1999

WHICH IS A CIP OF 09/083,906 05/22/1998

WHICH CLAIMS BENEFIT OF 60/086,410 05/22/1998

I hereby certify that I am the inventor(s) of the above application and that the U.S. Postal Service will forward my correspondence to the Assistant Commissioner for Patents, Washington, D.C. 20231

on 3/7/03
by: Spred Business

A copy of the original filing receipt is enclosed which shows the necessary corrections. A corrected filing receipt is respectfully requested.

Respectfully submitted,

Date: Feb 7, 2002

Telephone: 216-241-6700
Facsimile: 216-241-8151

Stephen S. Schultz
Stephen S. Schultz
Reg. No. 29,108

PATENT APPLICATION

Attorney Docket No. 14341

Client 4351

Patent No. _____

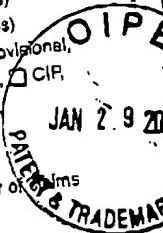
Applicant(s): *U.S. Patents, Trademarks & Assignments*
Title: *Useable Systems*
Serial No.: 09/1300600 Filed: 1/13/00 Initials: KJ

Mailing Date: _____

Receipt is hereby acknowledged of the following:

- Transmittal (____ pages)
 Provisional Application for Patent Cover Sheet
 Request for Filing a Patent Application under 37 CFR 1.53 (b) (____ pages)
 Request for Filing a Patent Application under 37 CFR 1.53 (d) (____ pages)
 Patent Application (____ total pages)
 Provisional, New Nonprovisional, Continuation, Divisional, CIP, PCT, cover page (____ pages of specification (____ pages of claims (____ pages of abstract (____ pages of drawings (____ sheets) Declaration(s) with Power of Attorney (____ pages)
 Check(s) in Amount of \$ _____

- Assignment(s) (____ pages)
 Assignment Cover Sheet(s) (____ pages)
 Small Entity Statement (____ pages)
 Number of Priority Document(s) (____ pages)
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 PTO Form 1449 (____ pages)
 Number of Documents (____ pages)
 Request for a ____ Month Extension of Time (____ months)
 Preliminary Amendment (____ pages)
 Amendment (____ pages)
 Notice of Appeal (____ pages)
 Appeal Brief in Triplicate (____ pages each)
 Issue Fee Transmittal PTO-85B & Copy (____ pages)
 Maintenance Fee Transmittal (____ pages)
 Request for Continued Examination (____ pages)



Status of Corrected Filing Receipt
Attachments - 10 pages

PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION:

Usama Fayyad et al.

Serial No.: 09/700,606 Group Art Unit: 2121

Filed: January 31, 2001 Examiner: Not yet assigned

Title: **SCALABLE SYSTEMS FOR CLUSTERING OF
LARGE DATABASES HAVING MIXED ATTRIBUTES**

Docket No.: 14-694 - 4254

Watts, Hoffmann, Fisher
& Heine Co., L.P.A.
1100 Superior Ave., Ste. 1750
Cleveland, OH 44114
(216) 241-6700 - telephone
(216) 241-8151 - facsimile

Assistant Commissioner for Patents
Office of Initial Patent Examination's
Customer Service Center
Washington, D. C. 20231

STATUS REQUEST REGARDING CORRECTED FILING RECEIPT

Dear Sir:

A request for a corrected filing receipt was filed in the U.S. Patent Office on June 1, 2001, a copy of the submitted documents are enclosed. It is respectfully requested that the Patent and Trademark Office indicate when it will issue a corrected filing receipt.

Respectfully submitted,

Stephen J. Schultz
Stephen J. Schultz
Reg. No. 29,108

Date June 7, 2002

U.S. POSTAL SERVICE MAIL BOX NUMBER 1000
U.S. POSTAL SERVICE, 2025 E. 10TH STREET, WASHINGTON, D.C. 20231
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cc: 17103
B7: MAILED BY AIR

14-194
PTO-84
FEB 8 2001
U.S. PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Attorney Docket No.: 14-194
Client: *Tisoma Daynard et al*

Applicant(s): *Tisoma Daynard et al*
Title: *Scallop - DENTAL IMPLANT*
Serial No.: *09/100,048* Filed: *1/31/01* Initials: *TD* Patent No.: *5,808,201*

Mailing Date: *6/1/01*

Recalpt is hereby acknowledged of the following:

Transmittal (pages)

Provisional Application for Patent Cover Sheet

Request for Filing a Patent Application under 37 CFR 1.53 (b) (pages)

Request for Filing a Patent Application under 37 CFR 1.53 (d) (pages)

Patent Application (total pages)

Provisional, New Nonprovisional,
 Continuation, Divisional, CIP,
 PCT, _____ cover page
 _____ pages of specification
 _____ pages of _____ number of claims
 _____ pages of abstract

Drawings (sheets)

Declaration(s) with Power of Attorney
 pages)

Check(s) in Amount of \$ _____

*Request for Amendment of filing receipt of
and withdrawal*

Assignment(s) (pages)

Assignment Cover Sheet(s) (pages)

Small Entity Statement (pages)

_____ Number of Priority Document(s)

Response to Notice to File Missing Parts
 pages)

Copy of Notice to File Missing Parts Form PTO-1533

Information Disclosure Statement (pages)

PTO Form 1449 (pages)

_____ Number of Documents

Petition for a _____ Month Extension of Time

Preliminary Amendment (pages)

Amendment (pages)

Notice of Appeal (pages)

Appeal Brief in Triplicate (pages each)

Issue Fee Transmittal PTOL-85B & Copy

Maintenance Fee Transmittal (pages)

Request for Continued Examination

RECEIVED
JUN 12 2001.



WATTS, HOFFMANN, FISHER & HEINKE
WATTS, HOFFMANN, FISHER
& HEINKE Co., L.P.A.
SUITE 1750
1100 SUPERIOR AVENUE
CLEVELAND, OHIO 44114-2518

**PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION: Usama Fayyad et al.

Serial No. 09/700,606

Filed: January 31, 2001

Title: SCALABLE SYSTEM FOR CLUSTERING OF LARGE DATABASES HAVING MIXED ATTRIBUTES

Docket No. 14-694 - 4254

WATTS, HOFFMANN, FISHER
& HEINKE, CO., L.P.A.
1100 Superior Avenue, Ste. 1750
Cleveland, Ohio 44114

Assistant Commissioner for Patents
Office of Initial Patent Examination's
Customer Service Center
Washington, D.C. 20231

REQUEST FOR CORRECTED FILING RECEIPT

Sir:

As evidenced by the enclosed copy of page one of the specification, specifically, the first two paragraphs which have been highlighted for your convenience, and the enclosed copy of the Declaration and Power of Attorney, the correct domestic priority data as claimed by applicant should read as follows:

THIS APPLICATION IS A 371 OF PCT/US99/06717 03/29/1999

WHICH IS A CIP OF 09/083,906 05/22/1998

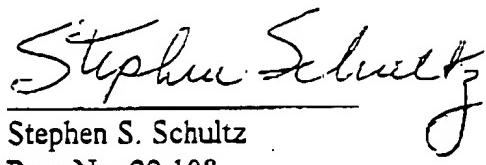
WHICH CLAIMS BENEFIT OF 60/086,410 05/22/1998

I hereby certify that this paper is being deposited with the U.S. Postal Service as 1st Class Mail addressed to the Assistant Commissioner of Patents, Washington, D.C. 20231

DO 6/1/01
BY Usama Fayyad

A copy of the original filing receipt is enclosed which shows the necessary corrections. A corrected filing receipt is respectfully requested.

Respectfully submitted,



Stephen S. Schultz
Reg. No. 29,108

Date: June 1, 2001
Telephone: 216-241-6700
Facsimile: 216-241-8151

A Scalable System for Clustering of Large Databases Having Mixed Data Attributes

Cross Reference to Related Applications

The present invention is a continuation in part of co-pending United States
5 patent application serial number 09/083,906 entitled "A Scalable System for
Expectation Maximization Clustering of Large Databases" to Fayyad et al having a
filing date of May 22, 1998, and which is assigned to the assignee of the present
application and is incorporated herein by reference.

Priority is claimed from provisional United States patent application serial
10 number 60/086,410 filed May 22, 1998.

Field of the Invention

The present invention concerns database analysis and more particularly
concerns an apparatus and method for clustering of data into groups that capture
15 important regularities and characteristics of the data.

Background Art

Large data sets are now commonly used in most business organizations. In
fact, so much data has been gathered that asking even a simple question about the data
20 has become a challenge. The modern information revolution is creating huge data
stores which, instead of offering increased productivity and new opportunities, can
overwhelm the users with a flood of information. Tapping into large databases for
even simple browsing can result in a return of irrelevant and unimportant facts. Even
25 people who do not 'own' large databases face the overload problem when accessing
databases on the Internet. A large challenge now facing the database community is
how to sift through these databases to find useful information.

Existing database management systems (DBMS) perform the steps of reliably
storing data and retrieving the data using a data access language, typically SQL. One
major use of database technology is to help individuals and organizations make
30 decisions and generate reports based on the data contained in the database.

An important class of problems in the areas of *decision support* and *reporting*
are clustering (segmentation) problems where one is interested in finding groupings
(clusters) in the data. Data clustering has been used in statistics, pattern recognition,



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
 UNITED STATES PATENT AND TRADEMARK OFFICE
 WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/700,606	01/31/2001	2121	1152	14-694-4254	8	34	4

CONFIRMATION NO. 8142

FILING RECEIPT



"OC000000005992681"

Watts Hoffman Fisher & Heinke Company
 Suite 1750
 1100 Superior Avenue
 Cleveland, OH 44114-2518

APR 27 2001

Date Mailed: 04/24/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Usama Fayyad, Mercer Island, WA;
 Paul S. Bradley, Seattle, WA;
 Cory A. Reina, Kirkland, WA;

09/083,906

Domestic Priority data as claimed by applicant

THIS APPLICATION IS A 371 OF PCT/US99/06717 03/29/1999
 WHICH IS A CIP OF 60/083,906 05/01/1998
 WHICH CLAIMS BENEFIT OF 60/086,410 05/22/1998

05/22/98

Foreign Applications

Projected Publication Date: N/A

Non-Publication Request: No

Early Publication Request: No

Title

Scalable system for clustering of large databases having mixed data attributes

Preliminary Class

700

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PATENT APPLICATION

Attorney Docket No.: 14-194
Client: PTO
Applicant(s): *Tessana Dayang et al.*
Title: *Debtagee Substitution Method and Apparatus*
Serial No.: *09/770,021*, Filed: *11/3/01*, Patent No.:
Mailing Date: *6/16/03*, Initials: *HB*

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Request for Filing a Patent Application under 37 CFR 1.53 (b) (pages)

Request for Filing a Patent Application under 37 CFR 1.53 (d) (pages)

Patent Application (total pages)

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